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09/214,140

Response Under 37 CFR §1.116

AMENDMENTS TO CLAIMS:

The listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-77. (Cancelled)

78. (Currently amended) A light communication system for performing communication between a physiological function assisting device and a controlling device, the system comprising:

in the physiological function assisting device,

means for detecting an internal state of a living body and generating a data signal representing the detected state;

a first transmitting means for transmitting light whose intensity is modulated on the basis of the detected data signal;

a first receiving means for receiving and demodulating light transmitted by ~~said~~the controlling means~~device~~ to extract a control signal included in the light;

in the controlling device,

means for generating the control signal;

a second transmitting means for transmitting light whose polarization plane is rotated according to the control signal; and a receiving means for receiving and demodulating light transmitted by ~~said~~the physiological function assisting device, to extract the data signal included in the light.

79. (Currently amended) A light communication system for performing communication between a physiological function assisting device and a controlling device, the system comprising:

in the physiological function assisting device,

means for detecting an internal state of a living body and generating a data signal representing the detected state;

a first transmitting means for transmitting light whose polarization plane is rotated according to the detected data signal;

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a first receiving means for receiving and demodulating light transmitted by saidthe controlling meansdevice to extract a control signal | included in the light;

in the controlling device,

means for generating the control signal;

a second transmitting means for transmitting light whose intensity is modulated on the basis of the control signal; and a receiving means for receiving and demodulating light transmitted by saidthe physiological function | assisting device, to extract the data signal included in the light.